ACCESSORIES

Recommended accessories for use with your Drill are listed below and in Black & Decker catalogs. (CAUTION: The use of any other accessory might be hazardous). All types of Bits, Hole Saws, Screw Driving Attachments, Rotary Files & Rasps, Angle Heads, Sanding & Polishing Accessories, etc. are available from your B&D Distributor. For help and advice on any application, write Cordless Product Manager at Black & Decker.

For safety in use, the following accessories should be used only in the sizes specified below:

BITS, METAL DRILLING — Up to ¼".
BITS, MASONRY DRILLING — Up to ¼".
BITS, WOOD DRILLING — Up to ½".
HOLE SAWS — Up to 1".
WIRE BRUSHES — Up to 3" diam.

We strongly recommend that your first purchase be the No. U-2106 Safety Glasses which should be worn when using all drill accessories.

CLEANING & LUBRICATION

Use only mild soap and a damp cloth to clean the tool. Many household cleaners contain chemicals which could seriously damage the plastic. Also, do not use gasoline, turpentine, lacquer or paint thinner, dry cleaning fluids or similar products. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

Self lubricating bearings are used in the tool and periodic relubrication is not required. However, it is recommended that, once a year, you take or send the tool to a B&D Service Center for a thorough cleaning, inspection and lubrication of the gear case.

STORAGE

1. The best storage place is one that is cool and dry — away from direct sunlight, heating pipes and ducts, furnaces, etc.
2. Best storage temperature is approximately +50°F. Do not store where temperatures may go below +40°F or above +120°F. Avoid storage in outside metal buildings where the temperature could go above +120°F. in summer, as this could damage the power pack.
3. Long storage will not harm the Drill, or Charger. Under the proper conditions (given above) they can be stored for 5 years or more without harm.

IMPORTANT

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment, (including brush inspection and replacement) should be performed by Black & Decker Service Centers or other qualified service organizations, always using Black & Decker replacement parts. Battery replacement should be accomplished at B&D Service Centers, using only identical replacement batteries.

ONE YEAR GUARANTEE

Black & Decker guarantees for one year from date of purchase to correct by repair or parts replacement without charge any product defect due to faulty material or workmanship. Simply return the complete unit, transportation prepaid to any Black & Decker Service Center or Authorized Service Station. Black & Decker assumes no responsibility for damage or faulty performance caused by misuse, careless handling or where repairs have been made or attempted by others.

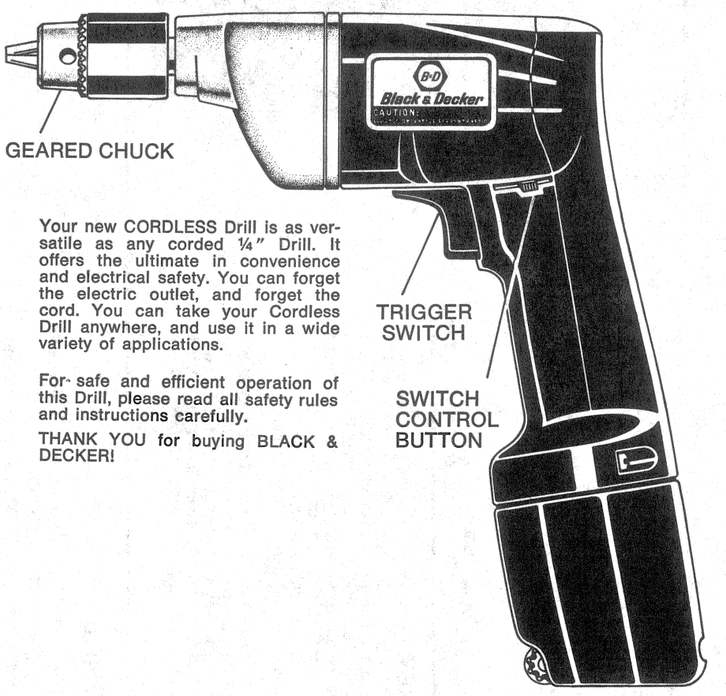
No other guarantees, written or verbal, are authorized.

THE BLACK & DECKER MFG. CO.
Towson, Md. 21204, U.S.A.

Form No. 722465 **(MAY75-CD)** **Printed in U.S.A.**

Black & Decker®

OWNER'S MANUAL



Your new CORDLESS Drill is as versatile as any corded ¼" Drill. It offers the ultimate in convenience and electrical safety. You can forget the electric outlet, and forget the cord. You can take your Cordless Drill anywhere, and use it in a wide variety of applications.

For safe and efficient operation of this Drill, please read all safety rules and instructions carefully.

THANK YOU for buying BLACK & DECKER!

No. 9030/1901
1/4" Cordless Drill with Charger

SAFETY RULES

SAFETY RULES FOR POWER TOOLS

1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
2. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
3. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place — out of reach of children.
4. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
5. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
6. **WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
7. **USE SAFETY GLASSES** with most tools. Also face or dust mask if cutting operation is dusty.
8. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
9. **DON'T OVERREACH.** Keep proper footing and balance at all times.
10. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
11. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
12. **AVOID ACCIDENTAL STARTING.** Don't carry tool with finger on switch.
13. **DO NOT OPERATE** portable electric tools in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

ADDITIONAL DRILL SAFETY RULES

1. Be aware that this tool is always in an operating condition, because it does not have to be plugged into an electrical outlet.
2. When drilling into walls, floors or whatever "live" electrical wires may be encountered. DO NOT TOUCH THE CHUCK OR ANY FRONT METAL PARTS OF THE DRILL! Hold the Drill only by the plastic handle to prevent electric shock if you drill into a "live" wire.

CHARGER & BATTERY SAFETY RULES

1. The Charger and Drill are specifically designed to work together. DO NOT attempt to charge any other cordless tool or battery pack with this Charger. DO NOT attempt to charge the Drill with any other Charger.
2. NEVER attempt to connect 2 Chargers together.
3. Do not attempt to open the Drill housing.
4. DO NOT store the Drill in locations where the temperature may reach or exceed 120°F (such as outside sheds or metal buildings in summer).
5. DO NOT charge Drill when temperature is BELOW +40°F or ABOVE +105°. This is very important.
6. DO NOT incinerate the Drill even if it is severely damaged or is completely worn out. The power pack can explode in a fire.
7. A small leakage of liquid from the battery cells may occur under extreme usage or temperature conditions. This does not indicate a failure. However, if the outer case seal is broken and this leakage gets on your skin —
   (a) Wash quickly with soap and water.
   (b) Neutralize with a mild acid such as lemon juice or vinegar.
   (c) If battery liquid gets into your eyes, wash them with a strong solution of boric acid and seek immediate medical attention.
8. Avoid dangerous environment. Don't use charger in damp or wet locations.
9. The charger is designed to operate on standard household electrical power (120 volts). Do not attempt to use it on any other voltage!
10. Don't abuse cord. Never carry charger by cord or yank it to disconnect from tool. Keep cord from heat, oil and sharp edges.

CHARGING THE POWER PACK

THE BATTERIES IN YOUR NEW DRILL ARE NOT FULLY CHARGED! First read the Safety Rules above. Then follow charging notes and procedures on page 3.

CHARGING THE POWER PACK

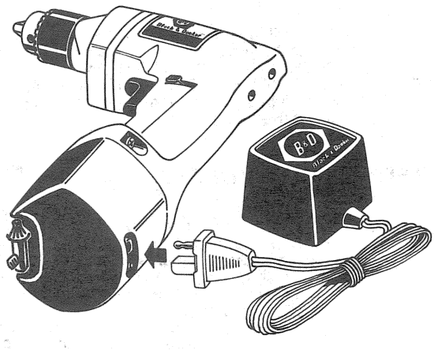
IMPORTANT CHARGING NOTES

1. Longest life and best performance can be obtained if the batteries are charged when the air temperature is about +75°F. DO NOT charge the batteries in an air temperature below +40°F or above +105°F. This is important and will prevent serious damage to the batteries.
2. When you charge your Drill for the first time, or after prolonged storage, it will only accept about an 80% charge. However, after several charge and discharge cycles, the batteries will be up to full capacity.
3. While charging, the Charger may hum and become warm to touch. This is a normal condition, and does not indicate a problem.
4. If the batteries do not charge properly — (1) Check current at receptacle by plugging in a lamp or other appliance, (2) Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights. (3) If current is o.k., and you do not get proper charging, take or send the tool and charger to your local service center. See "TOOLS, ELECTRIC" in yellow pages.
5. The Drill should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Repeat the charging procedure.
6. If, after repeated use, your Drill does not take a full charge, and produces operating time less than normal, it may not be caused by faulty batteries. If you use the power pack repeatedly for only a few minutes and then charge it, the batteries build up a resistance to taking a full charge. This resistance results in reduced operating time.

   The batteries can be restored to their original power and life by fully charging and then completely using up the charge several times. This will recondition the batteries to deliver maximum performance.

CHARGING PROCEDURE

1. Move Switch Control Button to the center of its slot to LOCK Trigger Switch "OFF" (see below).
2. Attach Charger Cord to Drill as shown in Figure 1.
3. Plug Charger into any 120-Volt, 50/60 Hz receptacle. Your Drill is now on charge.
4. The batteries will require, on the average, 16 hours of charging to reach full capacity; 8 hours will provide about 50% capacity. Don't worry about overcharging as the Drill can be left on charge indefinitely without harm. In fact, you can leave the Drill on charge continuously so that it will be ready to go at full charge.
5. When charging is completed, unplug Charger first, and then unplug Charger Cord from Drill.



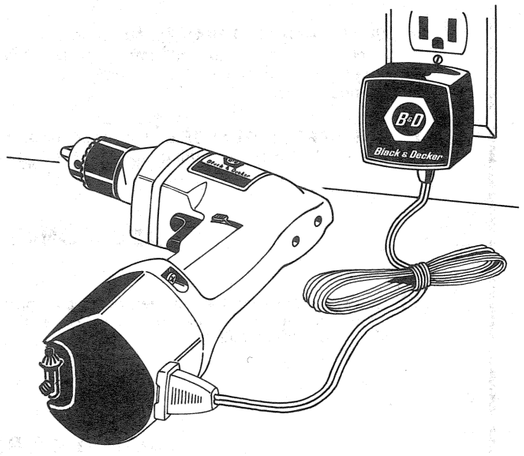


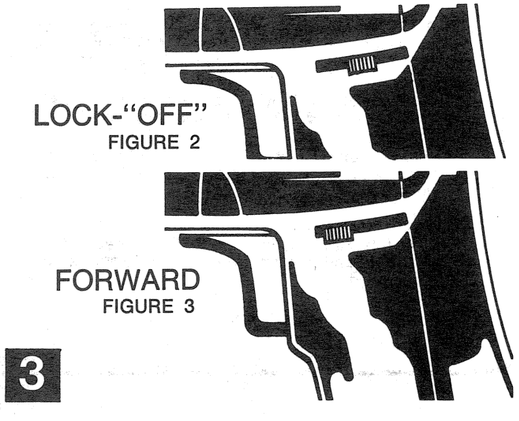
FIGURE 1

OPERATION

TRIGGER SWITCH & CONTROL BUTTON

The Drill is turned "ON" and "OFF" by pulling and releasing the Trigger Switch. However, the Trigger can be locked "OFF" by positioning the Switch Control Button in the center of its slot (Figure 2). This position should be used to prevent the Trigger from being accidentally pressed when the tool is not in use, when attaching or changing accessories, and when cleaning or servicing the Drill.

For normal use, the Switch Control Button should be in the FORWARD position (Figure 3).



LOCK-"OFF"
FIGURE 2

FORWARD
FIGURE 3

OPERATION

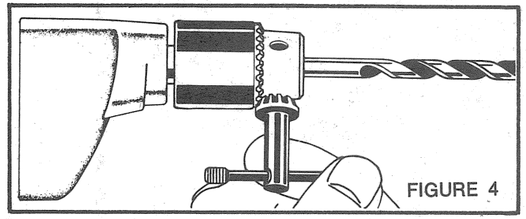
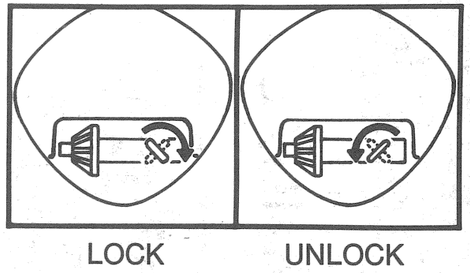


FIGURE 4

CHUCK & KEY

Turn chuck collar to open chuck jaws. Place bit in chuck as far as it will go. Tighten chuck collar by hand. **Place chuck key in each of the three holes, and tighten in clockwise direction (Figure 4).** It's important to tighten chuck with all three holes to prevent bit slippage. To release bit, turn chuck key counter-clockwise in just one hole, then loosen chuck by hand.

When not in use, the chuck key can be stored in a locked position in the end of the power pack. To remove the key, twist the flattened end of the key's handle 90° counter-clockwise (Figure 5) and pull out key. To replace key, insert key's handle all the way into slot in end of power pack and twist flattened end 90° clockwise.



LOCK UNLOCK

FIGURE 5

DRILLING (Figure 6)

1. Lock Trigger Switch "OFF" with switch control button when attaching or changing bits or accessories.
2. **Use sharp drill bits only.** For WOOD, use twist drill bits, spade bits, power auger bits, or hole saws. For METAL, use high-speed steel twist drill bits. For MASONRY, such as brick, cement, cinder block, etc., use carbide-tipped bits.
3. Be sure the material to be drilled is anchored or clamped firmly. If drilling thin material, use a wood "back-up" block to prevent damage to material.
4. Center-punch an indentation at the point to be drilled. This will overcome tendency of bit to slip around on a smooth surface. Place the tip of bit in indentation and turn motor "ON."
5. Always apply pressure in a straight line with the bit. Use enough pressure to keep drill biting, but do not push hard enough to stall motor or deflect bit. To minimize stalling on breaking through the material, reduce pressure on drill and ease the bit through last part of hole.
6. Hold drill firmly to control the twisting action of the drill.

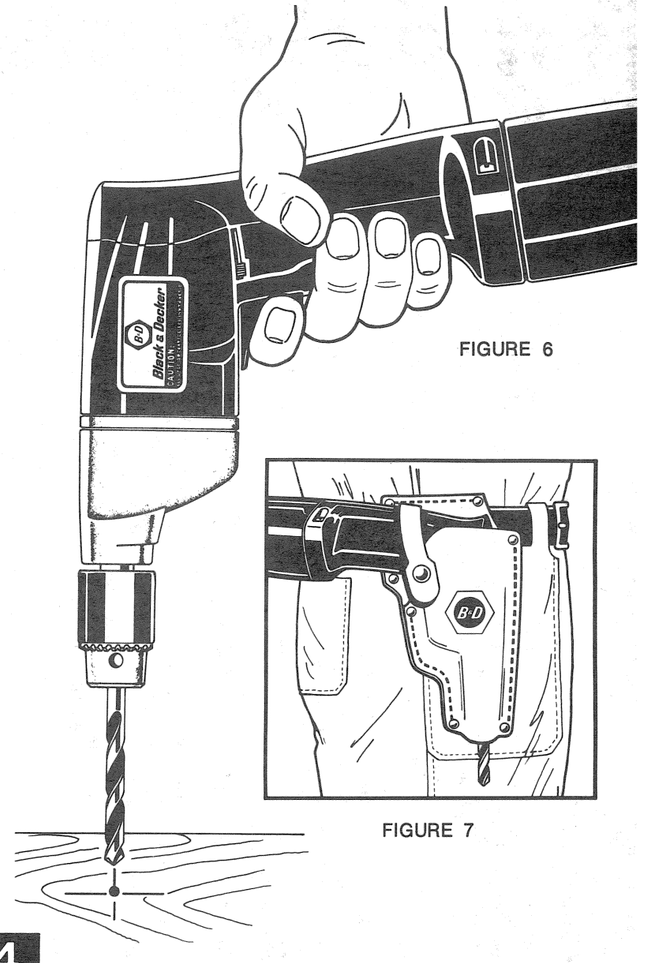


FIGURE 6

DRILLING IN WOOD

Holes in wood can be made with the same twist drill bits used for metal or with wood augers. These bits should be sharp and should be pulled out frequently when drilling to clear chips from the flutes. Work that is apt to splinter should be backed up with a block of wood. Let up on the pressure just before the tip cuts through, this will give a good clean hole.

DRILLING IN METAL

Use a cutting lubricant when drilling ferrous metals. The exceptions are iron and brass which should be drilled dry. The cutting lubricants that work best are sulphurized cutting oil or lard oil; bacon grease will also serve the purpose. Aluminum is best drilled with turpentine or kerosene.

LEATHER HOLSTER

To add even more to the convenience features of your Cordless Drill, an accessory Leather Holster is available. This Holster fastens to your belt and keeps the Drill handy and ready for work. It also frees both hands when you are not actually using the tool. Order:

Cat. No. 98-004/91-012 Leather Holster (Figure 7)

FIGURE 7